formula HO(CH2CH2O)nH, HO(CHMeCH2O)nOH, HO(CH2CH2CH2CH2C)nH and HO(CHEtCH2O)nH (with n = 2-10), or mixts. thereof, and (b1) is maleic or phthalic acid. (c) are stearates of 2-, 3- or 4-valent metals, PE wax, Fischer-Tropsch hard paraffin, or animal, vegetable or mineral wax, in amts. of 4-10 wt. %, or siliconised silicic acid in amts. of 6-12 wt. %. (w.r.t. a+b+c). (I) also contain fillers, pigments etc.

USE/ADVANTAGE - (I) are useful for coating textile sheets (claimed). The method provides a coating material, esp. for producing linoleum and other textile-based flooring material, which is obtd. by a simple process from cheap, renewable raw materials and meets all the relevant requirements (high viscosity at room temp., max. setting time 5 mins. at up to 200 deg., to give a strong, non-sticky coating with good elasticity, wear resistance and hydrolytic stability, etc.

Dwg.0/0 Abstract (Equivalent): DE 4135664 C

Coating compsn comprises an epoxidation prodn (about 1 mol) of one or more esters of unsatd 8-22C fatty acids and 2-6C aliphatic polyols, contg on average more than one epoxide gp per molecule; one or more partial esters (about 1 mol) of alk-2-ene-polycarboxylic acids having at least two free COOH gps and polyether polyols derived from polyols of formula HO(CHR-CH2O)nOH and/or HO((CH2)4O)nOH, where R is H, Me or Et and n is 2-10; a hydrophobic additive (2-14 wt%), pref a metallic stearate, silicone oil, polyethylene wax, hard paraffin, animal or vegetable wax, PTFE or siliconised silica; and opt fillers pigments, etc.

 ${\tt USE/ADVANTAGE}$  - The prods are surface coating agents for textiles. The coatings exhibit elasticity, abrasion resistance and hydrolytic stability.

Dwg.0/0

Abstract (Equivalent): EP 539916 B

Coating composition containing a combination of a) epoxidation products of esters of unsaturated fatty acids of chain length C8 to C22 with polyvalent aliphatic alcohols which contain 2-6 C atoms and which include on average more than one epoxide group per molecule and b) partial esters of polycarbonic acids with polyglycols which include at least two free carbonic acid groups per molecule and a double bond with the free carbonic acid groups in the alpha, beta position, c) a hydrophobic agent, the components in accordance with a) and b) being used in a molar ratio of 0.1:1 to 1.2:1 and the addition of hydrophobic agents being 2 to 14 weight percent of the coating.

Dwg.0/0

Derwent Class: A28; A82; G02

International Patent Class (Main): C08G-059/42; C09D-191/00

International Patent Class (Additional): C09D-007/12; C09D-163/00;

C09D-167/00; C09D-191/06; D06N-003/16

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1/34/1
            (Item 1 from file: 345)
 11134108
 Basic Patent (No, Kind, Date): EP 539916 A1 19930505
 PATENT FAMILY:
 GERMANY (DE)
  Patent (No, Kind, Date): DE 4135664 A1 19930506
    BESCHICHTUNGSMASSE AUS NACHWACHSENDEN ROHSTOFFEN (German)
    Patent Assignee: BOEHME CHEM FAB KG (DE)
    Author (Inventor): BALBACH GUENTER DR (DE); JUNG KARL-HEINZ DR (DE);
      DOECKER HORST (DE)
    Priority (No, Kind, Date): DE 4135664 A 19911029
    Applic (No, Kind, Date): DE 4135664 A 19911029
    IPC: * C09D-191/00; C09D-007/12; C09D-191/06; D06N-003/16; C09K-003/18
      ; C09D-127/18; C09D-123/06
    Language of Document: German
  Patent (No, Kind, Date): DE 59208320 CO 19970515
    BESCHICHTUNGSMASSEN AUF BASIS NACHWACHSENDER ROHSTOFFE (German)
    Patent Assignee: BOEHME CHEM FAB KG
                                         (DE)
    Author (Inventor): BALBACH GUENTER DR (DE); JUNG KARL-HEINZ DR
      DOECKER HORST (DE)
    Priority (No, Kind, Date): DE 59208320 A
                                               19921027; DE 4135664 A
      19911029
    Applic (No, Kind, Date): DE 59208320 A
                                            19921027
    IPC: * C08G-059/42; C09D-163/00; C09D-167/00
    CA Abstract No: * 120(02)0104570
    Derwent WPI Acc No: * C 93-145300
    Language of Document: German
  Patent (No, Kind, Date): DE 4135664 C2 19951026
    BESCHICHTUNGSMASSE AUS NACHWACHSENDEN ROHSTOFFEN (German)
    Patent Assignee: BOEHME CHEM FAB KG
                                         (DE)
    Author (Inventor): BALBACH GUENTER DR (DE); JUNG KARL-HEINZ DR
      DOECKER HORST
                    (DE)
    Priority (No, Kind, Date): DE 4135664 A
                                             19911029
    Applic (No, Kind, Date): DE 4135664 A
                                          19911029
    Filing Details: DE C2 D2 Grant of a patent after examination process
    IPC: * C09D-191/00; C09D-007/12; C09D-191/06; D06N-003/16
    CA Abstract No: * 120(02)0104570
    Derwent WPI Acc No: * C 93-145300
    Language of Document:
                          German
EUROPEAN PATENT OFFICE (EP)
  Patent (No, Kind, Date): EP 539916 A1 19930505
   COATING COMPOSITIONS BASED ON REGENERABLE RAW MATERIAL (English; French
      ; German)
   Patent Assignee: BOEHME CHEM FAB KG
                                         (DE)
   Author (Inventor): BALBACH GUENTER DR (DE); JUNG KARL-HEINZ DR (DE);
    DOECKER HORST (DE)
   Priority (No, Kind, Date): DE 4135664 A
                                             19911029
   Applic (No, Kind, Date): EP 92118334 A
                                            19921027
   Designated States: (National) BE; DE; DK; FR; GB; LU; NL; SE
   IPC: * C08G-059/42; C09D-163/00; C09D-167/00
   CA Abstract No: ; 120(02)010457Q
   Derwent WPI Acc No: ; C 93-145300
   Language of Document: German
 Patent (No, Kind, Date): EP 539916 B1 19970409
   COATING COMPOSITIONS BASED ON REGENERABLE RAW MATERIAL (English; French
     ; German)
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Patent Assignee: BOEHME CHEM FAB KG (DE)
Author (Inventor): BALBACH GUENTER DR (DE); JUNG KARL-HEINZ DR (DE);
DOECKER HORST (DE)
Priority (No,Kind,Date): DE 4135664 A 19911029
Applic (No,Kind,Date): EP 92118334 A 19921027
Designated States: (National) BE; DE; DK; FR; GB; LU; NL; SE
IPC: * C08G-059/42; C09D-163/00; C09D-167/00
CA Abstract No: * 120(02)010457Q
Derwent WPI Acc No: * C 93-145300
Language of Document: German
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## 1/34/2 (Item 1 from file: 351)

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WPI Acc No: 1993-145300/199318

Coating materials based on renewable raw materials - contain epoxidised ester(s) of unsatd. fatty acids, partial ester(s) of unsatd. polycarboxylic acids and polyglycol(s), and waterproofing agents

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Patent Assignee: BOEHME CHEM FAB KG TH (BOHT )
Inventor: BALBACH G; DOECKER H; JUNG K; JUNG K H
Number of Countries: 008 Number of Patents: 005
Patent Family:
Patent No Kind Date
                                Applicat No Kind Date
                                                                   Week
EP 539916
              A1 19930505 EP 92118334
                                                A 19921027 199318
DE 4135664 A1 19930506 DE 4135664 A 19911029 199319
DE 4135664 C2 19951026 DE 4135664 A 19911029 199547
EP 539916 B1 19970409 EP 92118334 A 19921027 199719
DE 59208320 G 19970515 DE 508320 A 19921027 199725
                     19970515 DE 508320
                                                 A 19921027
                                                                  199725
                                EP 92118334 A 19921027
Priority Applications (No Type Date): DE 4135664 A 19911029
Cited Patents: DE 1494405; FR 2457884; EP 174042
Patent Details:
Patent No Kind Lan Pg
                            Main IPC
                                         Filing Notes
EP 539916 A1 G 6 C08G-059/42
   Designated States (Regional): BE DE DK FR GB LU NL SE
DE 4135664 A1 5 CO9D-191/00
DE 4135664 C2 5 C09D-191/00
EP 539916 B1 G 9 C08G-059/42
   Designated States (Regional): BE DE DK FR GB LU NL SE
DE 59208320 G
                         C08G-059/42 Based on patent EP 539916
Abstract (Basic): EP 539916 A
        Coating materials (I) are claimed, contg. (a) epoxidised esters of
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Coating materials (I) are claimed, contg. (a) epoxidised esters of 8-22C unsatd. fatty acids with 2-6C polyhydric alcohols, contg. more than 1 epoxide gp./mol., (b) partial esters of polycarboxylic acids (b1) and polyglycols (b2), contg. at least 2 free COOH gps./mol. with a double bond in the alpha, beta-position to the free COOH, and (c) a waterproofing agent. Mol. ratio (a):(b) = (0.8:1)-(1.2:1), and the coating contains 2-14 wt. % (c).

Specifically (a) is an epoxidised natural unsatd. fat or oil, pref. contg. more than 1.5 epoxide gps./mol. (on average). (b2) are poly-ethylene, -propylene, -tetramethylene or -butylene glyols of